

The present application is related to commonly assigned U.S. Patent Application Serial No. 09/764,707, which was filed on January 18, 2001, by William H. Zebuhr for a Cycled-Concentration Distiller, U.S. Patent Application Serial No. 09/765,260, which was filed on January 18, 2001, by William H. Zebuhr for a Distiller Employing Separate Condensate and Concentrate Heat-Exchange Paths, U.S. Patent Application Serial No. 09/765,261, which was filed on January 18, 2001, by William H. Zebuhr for a Rotary Evaporator Employing Self-Driven Recirculation, and U.S. Patent Application Serial No. 09/765,475, which was filed on January 18, 2001, by William H. Zebuhr for a Distiller Employing Recirculant-Flow Filter Flushing, all of which are hereby incorporated by reference.

IN THE CLAIMS:

Please replace claim 1 with the following amended version thereof to incorporate the revisions set forth on the accompanying mark-up page:

- 1 1. (Amended) For distilling a liquid, an evaporator-and-condenser unit comprising:  
2       A) a heat exchanger that forms at least one condensation chamber and at least  
3           one evaporation chamber and includes heat-transfer surfaces by which heat  
4           passes from the at least one condensation chamber to the at least one evapo-  
5           ration chamber;  
6       B) a varying-rate evaporation-chamber irrigation system whose rate of irriga-  
7           tion of each said evaporation chamber has a respective average irrigation  
8           rate and so varies as repeatedly to reach a respective peak irrigation rate that  
9           is at least twice the average irrigation rate thereof; and
- sprayer*